

### **Abstract**

A reciprocating saw, comprises: a housing [13], a plunger [15], a driving gear [7], a link shaft [4], a pushing member [9], a lifting member [11], a front end portion of said link shaft [4] rotatably connect with a rear end portion of said plunger [15], said lifting member [1] connect with said housing [13] and contact with a front end portion of said pushing member [9], said lifting member [11] also contact with a sleeve bearing which disposed on a rear end portion of said plunger [15], a angle between lines through a center of a first eccentric shaft [5], a rotating center of said driving gear [7] and a rotating center of a second eccentric shaft [8] is an obtuse angle. Said pushing member will move back and forth when said link shaft [4] move forward, the movement of said pushing member in the direction opposite to the movement of said link shaft will eliminate the vibration which resulting from the reciprocating movements of said plunger.